



U.S. DEPARTMENT OF COMMERCE

U. S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

(37 CFR 1.98)(4)

(37 CFR 1.98(e))

ATTY. DOCKET NO. ASTRX-007B

SERIAL NO. 10/067,473

APPLICANT BRAD FREEMAN, ET AL.

FILING DATE February 4, 2002

GROUP

U.S. PATENT DOCUMENTS

ISS AVAILABLE COPY

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

OTHER DOCUMENTS (including Author, Title, Date*, Relevant Pages, Place of Publication***)**

EXAMINER

Fadi H. Dahbour

DATE CONSIDERED

4/2/04

EXAMINER: Initial citation considered. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

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TECHNOLOGY CENTER R3700

FORM PTO-1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

ATTY. DOCKET NO. ASTRX-007B

SERIAL NO. 10/067,473

APPLICANT BRAD FREEMAN, et al.

FILING DATE February 4, 2002

GROUP 3764

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|---------------|---|---|---|---|---|---|------------|----------------|-------|----------|----------------------------|
| FHD | D | 2 | 6 | 9 | 3 | 7 | 9 | 06/1983 | Bledsoe * | | | |
| | D | 2 | 8 | 4 | 7 | 0 | 2 | 07/1986 | Castillo * | | | |
| | D | 2 | 9 | 8 | 5 | 6 | 8 | 11/1988 | Womack * | | | |
| | D | 3 | 1 | 8 | 7 | 3 | 6 | 07/1991 | Castillo * | | | |
| | D | 3 | 4 | 6 | 0 | 2 | 8 | 04/1994 | Lengyel * | | | |
| | D | 3 | 5 | 7 | 0 | 7 | 0 | 04/1995 | Castillo * | | | |
| | 1 | 3 | 9 | 0 | 9 | 1 | 5 | 09/1921 | Loth * | | | |
| | 2 | 5 | 3 | 1 | 4 | 8 | 6 | 11/1947 | Weber * | | | |
| | 2 | 8 | 8 | 3 | 9 | 8 | 2 | 04/1959 | Rainey * | | | |
| | 3 | 0 | 3 | 0 | 6 | 3 | 4 | 04/1962 | Bair * | | | |
| | 3 | 0 | 9 | 9 | 4 | 4 | 8 | 07/1963 | Salvo et al. * | | | |
| | 3 | 3 | 8 | 7 | 3 | 0 | 5 | 06/1968 | Shafer * | | | |

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| | | DOCUMENT NUMBER | | | | | | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION | |
|-----|--|-----------------|---|---|---|---|---|------------------|--------------------------|----------------------|----------|-------------|----|
| | | | | | | | | | | | | YES | NO |
| FHD | | 2 | 9 | 7 | 7 | 6 | 6 | A | 04/1989 | European Pat. Off. * | | | |
| | | 1 | 4 | 9 | 1 | 5 | 6 | 9 | 07/1969 | Germany * | | | X |
| | | 2 | 4 | 3 | 2 | 7 | 6 | 6 | 03/1975 | Germany * | | | X |
| | | 8 | 4 | 0 | 4 | 2 | 4 | 0 | 11/1984 | WIPO * | | | |

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

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FORM PTO-1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

ATTY. DOCKET NO. ASTRX-007B

SERIAL NO. 10/067,473

APPLICANT Brad Freeman, et al.

FILING DATE February 4, 2002

GROUP

| U.S. PATENT DOCUMENTS | | | | | | | | | | | |
|--|---------------|---|---|---|---|---|------------|----------|---------------------|----------|---|
| EXAMINER INITIAL | PATENT NUMBER | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | RECEIVED 37 U.S.C. 102(b)(1)(A) 22 APR 2002 MAIL ROOM |
| FHD | 3 | 6 | 6 | 9 | 1 | 0 | 5 | 06/1972 | Castiglia * | | |
| OIPE JG | 3 | 7 | 7 | 9 | 6 | 5 | 4 | 12/1973 | Horne * | | |
| PTM | 3 | 7 | 8 | 5 | 3 | 7 | 2 | 01/1974 | Craig * | | |
| APR 16 2002 PATENT & TRADEMARK OFFICE | 3 | 8 | 1 | 7 | 2 | 4 | 4 | 06/1974 | Taylor * | | |
| | 3 | 9 | 0 | 0 | 8 | 9 | 8 | 08/1975 | Kerman * | | |
| | 3 | 9 | 0 | 2 | 4 | 8 | 2 | 09/1975 | Taylor * | | |
| | 3 | 9 | 2 | 8 | 8 | 7 | 2 | 12/1975 | Johnson * | | |
| | 3 | 9 | 5 | 8 | 5 | 6 | 9 | 05/1976 | Vosburgh * | | |
| | 4 | 1 | 3 | 6 | 4 | 0 | 4 | 01/1979 | Lange * | | |
| | 4 | 1 | 6 | 9 | 4 | 6 | 7 | 10/1979 | Rabischong et al. * | | |
| | 4 | 2 | 4 | 1 | 7 | 3 | 0 | 12/1980 | Heifet * | | |
| | 4 | 2 | 7 | 1 | 8 | 3 | 1 | 06/1981 | Deibert * | | |

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUBCLASS | TRANSLATION | |
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PATENTS

IDS1449.PTO

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)
(37 CFR 1.98(b))

ATTY. DOCKET NO. ASTRX-007B SERIAL NO. 10/067,473

APPLICANT BRAD FREEMAN, ET AL.

FILING DATE February 4, 2002 GROUP

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|---------------|---|---|---|---|---|---|------------|--------------------|-------|----------|----------------------------|
| FHD | 4 | 3 | 6 | 1 | 1 | 4 | 2 | 11/30/82 | Lewis et al. * | | | |
| | 4 | 3 | 7 | 2 | 2 | 9 | 8 | 02/08/83 | Lerman * | | | |
| | 4 | 3 | 8 | 1 | 7 | 6 | 8 | 05/03/83 | Erickson, et al. * | | | |
| | 4 | 4 | 0 | 7 | 2 | 7 | 6 | 10/04/83 | Bledsoe * | | | |
| | 4 | 4 | 2 | 8 | 3 | 6 | 9 | 01/31/84 | Peckham et al. * | | | |
| | 4 | 4 | 8 | 7 | 2 | 0 | 0 | 12/11/84 | Feanny et al. * | | | |
| | 4 | 4 | 8 | 9 | 7 | 1 | 8 | 12/15/84 | Martin * | | | |
| | 4 | 4 | 9 | 3 | 3 | 1 | 6 | 01/15/85 | Reed, et al. * | | | |
| | 4 | 4 | 9 | 4 | 5 | 3 | 4 | 01/22/85 | Hutson * | | | |
| | 4 | 5 | 0 | 3 | 8 | 4 | 6 | 03/12/85 | Martin * | | | |
| | 4 | 5 | 2 | 3 | 5 | 8 | 5 | 06/18/85 | Lamb et al. * | | | |
| ↓ | 4 | 5 | 5 | 4 | 9 | 1 | 3 | 11/26/85 | Womack et al. * | | | |

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FORM PTO-1449
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(37 CFR 1.98(b))

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SERIAL NO. 10/067,473

APPLICANT BRAD FREEMAN, ET AL.

FILING DATE February 4, 2002

GROUP

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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | | | | | | | ISSUE DATE | PATENTEE | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| | 4 | 5 | 5 | 9 | 9 | 9 | 8 | | | | | |
| FHD | 4 | 6 | 0 | 3 | 6 | 9 | 0 | 08/05/86 | Skeen * | | | |
| | 4 | 6 | 1 | 4 | 1 | 8 | 1 | 09/30/86 | Karlsson * | | | |
| | 4 | 6 | 2 | 0 | 5 | 3 | 2 | 11/04/86 | Houswerth * | | | |
| | 4 | 6 | 2 | 1 | 6 | 2 | 4 | 11/11/86 | Rayboy * | | | |
| | 4 | 6 | 2 | 8 | 9 | 1 | 6 | 12/16/86 | Lerman et al. * | | | |
| | 4 | 6 | 6 | 5 | 9 | 0 | 5 | 05/19/87 | Brown * | | | |
| | 4 | 6 | 8 | 1 | 0 | 9 | 7 | 07/21/87 | Pansier * | | | |
| | 4 | 6 | 9 | 7 | 5 | 8 | 3 | 10/06/87 | Mason et al. * | | | |
| | 4 | 6 | 9 | 9 | 1 | 2 | 9 | 10/13/87 | Aaserude et al. * | | | |
| | 4 | 7 | 1 | 5 | 3 | 6 | 3 | 12/29/87 | Detty * | | | |
| | 4 | 7 | 2 | 3 | 5 | 3 | 9 | 02/09/88 | Townsend * | | | |

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(37 CFR 1.98(b))

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SERIAL NO. 10/067,473

APR 16 2002

APPLICANT BRAD FREEMAN, ET AL.

PATENT & TRADEMARK OFFICE

FILING DATE February 4, 2002

GROUP

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U.S. PATENT DOCUMENTS

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|------------------|---------------|---|---|---|---|---|------------|-------------|-------------------|----------|----------------------------|
| FHD | 4 | 7 | 5 | 3 | 2 | 4 | 0 | 12/20/88 | Sparks * | | |
| | 4 | 7 | 9 | 1 | 9 | 1 | 6 | 12/20/88 | Paez * | | |
| | 4 | 8 | 0 | 3 | 9 | 7 | 5 | 02/14/89 | Meyers * | | |
| | 4 | 8 | 5 | 4 | 3 | 0 | 8 | 08/08/89 | Drillio * | | |
| | 4 | 8 | 5 | 6 | 5 | 0 | 1 | 08/15/89 | Castillo et al. * | | |
| | 4 | 8 | 8 | 6 | 0 | 5 | 4 | 12/12/89 | Castillo et al. * | | |
| | 4 | 9 | 3 | 8 | 2 | 0 | 7 | 07/03/90 | Vargo * | | |
| | 4 | 9 | 4 | 0 | 0 | 4 | 4 | 07/10/90 | Castillo * | | |
| | 4 | 9 | 6 | 4 | 4 | 0 | 2 | Grim et al. | 10/23/90 * | | |
| | 4 | 9 | 8 | 6 | 2 | 6 | 4 | 01/22/91 | Miller * | | |
| | 5 | 0 | 6 | 3 | 9 | 1 | 6 | 11/12/91 | France et al. * | | |
| | 5 | 1 | 2 | 1 | 7 | 4 | 2 | 06/16/92 | Engen * | | |

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APR 16 2002 | |
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| (37 CFR 1.98(b)) | | GROUP | |

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